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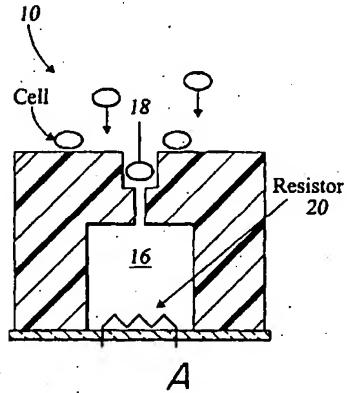
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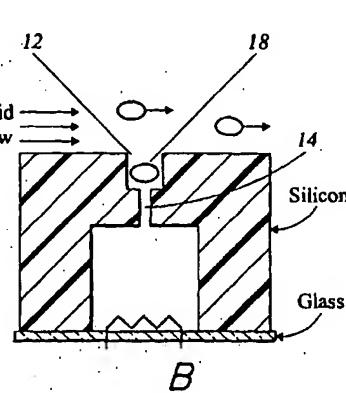
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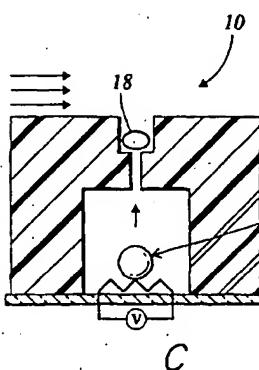
(54) Title: CELL ANALYSIS AND SORTING APPARATUS FOR MANIPULATION OF CELLS



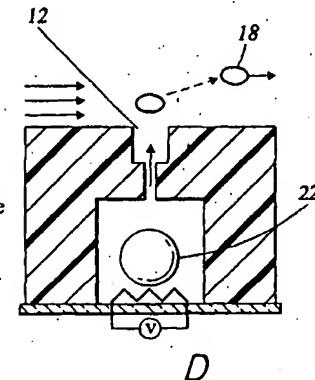
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B



C



D

(57) Abstract: A cell analysis and sorting apparatus is capable of monitoring over time the behaviour of each cell in a large population of cells. The cell analysis and sorting apparatus contains individually addressable cell locations. Each location is capable of capturing and holding a single cell, and selectively releasing that cell from that particular location. In one aspect of the invention, the cells are captured and held in wells, and released using vapor bubbles as a means of cell actuation. In another aspect of the invention, the cells are captured, held and released using electric fields traps.

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Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 506 141 A (DEUTSCH MORDECHAI ET AL) 9 April 1996 (1996-04-09) column 7, line 37 -column 8, line 25 column 9, line 56 -column 10, line 20 column 11, line 3-22 column 11, line 49 -column 12, line 13 column 14, line 40 -column 16, line 22 column 19, line 24 -column 20, line 42	1-6
X	WO 99 31503 A (SCHMIDT CHRISTIAN ;VOGEL HORST (CH)) 24 June 1999 (1999-06-24) page 4, line 15 -page 5, line 30 page 7, line 20-34 page 8, line 15 -page 9, line 31 page 13, line 24-32	1-4, 6, 23
A		7, 30

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Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 197 12 309 A (NMI NATURWISSENSCHAFTLICHES UN) 20 May 1998 (1998-05-20) abstract ---	1-3
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Information on patent family members

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